

The VEMS v3

The VEMS monitors your engine sensors and makes decisions on how much fuel to flow and how much ignition advance is needed. You can easily tune for high fuel economy or maximum power.

Developed with passion

The VEMS system will offer you the utmost control over virtually any engine up to 16 cylinders. The VEMS v3 gives you the flexibility and control over your engine management that you should demand. Versatility is the focus of every idea as it progresses through development at VEMS. The development team is passionate about their cars. This passion is what makes the functionality of the system the most important development goal.

"Under the hood"



VEMS v3 hardware is extremely flexible. These are the major components and interfaces:

16MHz central processor

8 high current ignition drivers.

8 injection drivers supporting peak-hold injectors.

2 High current misc outputs.

1 Idle stepper driver. (Can be used as four individual 1A push-pull drivers)

4 350mA protected open collector drivers

1 350mA protected open collector driver for fuel pump relay

1 350mA protected open collector driver for small idle solenoids

2 350mA protected open collector drivers driving LED's. Available for other applications if connected on board.

2 RS232 ports

1 1wire communications port.(Replaces one RS232)

Onboard LCD support

Onboard PS/2 keyboard support

Feature connector for CAN bus and MMC (multimediacard) add-on boards.

Fast serial boot loader for firmware updates.

Crank and Cam sensor inputs

2 knock sensor inputs

Onboard MAP Sensor

Coolant temperature sensor (CLT)

Intake Air Temperature sensor (IAT)

Throttle position sensor (TPS)

2 misc inputs for resistive sensors, like exhaust back pressure and fuel pressure.

2 LSU4 WBo2 controllers

2 K-Type EGT sensor amplifiers

Tuning software

VEMS offers a fully graphical tuning software package that runs on Windows or Linux. The software is compatible with all of our products and offers a great view into the performance of your engine allowing you to tune the engine.



Where to buy

*Get your Versatile Engine Management System
installed at:*

*6speed Racing
Colchester, VT
www.6speed.org
802-660-1980*

